BRUHAT BANGALORE MAHANAGAR PALIKE

NAME OF WORK: Construction of Toilets at Parks in Yelahanka New Town Sub division

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	Pathway	4	1	6.00	3.00	0.20	14.40		
		cum				Total Qty	14.40	140.40	2,021.76
	Basic Rate	130.00							
	Area Weightage	8.00%							
	Total Qty	140.40							
2	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2								
	(Page No. 13, Item No. - 4.3 of PW;P&IWTD S.R 2018-19)								
	Pathway	4	1	10.00	4.00	0.20	32.00		
		cum				Total Qty	32.00	5510.16	176,325.12
	Basic Rate	5102.00							
	Area Weightage	8.00%							
	Total Qty	5510.16							
3	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.								
	(P.No. 109, I.No. 14.62 of PWD SR 2018-19)								
	Pathway	4	1	10.00	3.00		120.00		
		Sqm				Total Qty	120.00	1330.56	159,667.20
	Basic Rate	1232.00							
	Area Weightage	8.00%							
	Total Qty	1330.56							
4	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications.								
	(PW,P& IWTD, SR 18-19, P-45, I.No-7.38)								
	SS Railing								
	for Steps	4		2.00	3.50	1.20	33.60		

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
							33.60	6502.68	218,490.05
	Rate Analysis	sqm							
	Basic Rate	**6021.00**							
	Area Weightage	**8.00%**							
	Total Qty	**6502.68**							
	Toilet Construction								
5	Earthwork excavation by manual means for foundations, either in pits or trenches 1.5m and above in width, in soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges from edges of excavation with lead upto 50m, including breaking of clods complete as per specification in hard soil .KSRB 2-3								
	(Page No. 6, Item No. - 2.3 of PW;P&IWTD S.R 2018-19)								
	Footing	4	8	2.00	2.00	1.65	212.36		
	Foundation	4	2	5.60	0.90	1.20	48.38		
		4	2	5.55	0.90	1.20	47.95		
						Total Qty	**308.70**	**322.92**	**99,684.00**
	Rate Analysis	Cum							
	Basic Rate	**299.00**							
	Area Weightage	**8.00%**							
	Total Qty	**322.92**							
6	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS								
	(Page No. 7, Item No. - 2.15 of PW;P&IWTD S.R 2018-19)								
	Footing	4	8	2.00	2.00	0.30	38.40		
						Total Qty	**38.40**	**2623.32**	**100,735.00**
	Rate Analysis	Cum							
	Basic Rate	**2429.00**							
	Area Weightage	**8.00%**							
	Total Qty	**2623.32**							
7	Providing and injecting chemical emulsion for Pre- constructional Anti-Termite Treatment creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, Surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm., including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7								
	(Page No. 10, Item No. - 3.2 of PW;P&IWTD S.R 2018-19)								
	Floor Area	4	1	5.60	5.55		124.32		
					Total Qty		**124.32**	**114.48**	**14,232.00**
	Rate Analysis	Sqm							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
	Basic Rate	106.00							
	Area Weightage	8.00%							
	Total Qty	114.48							
8	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2								
	(Page No. 13, Item No. - 4.3 of PW;P&IWTD S.R 2018-19)								
	Footing	4	8	2.00	2.00	0.15	19.20		
	Foundation	4	2	5.60	0.90	0.15	6.05		
		4	2	5.55	0.90	0.15	5.99		
	Floor Area	4	1	5.60	5.55	0.15	18.65		
	Total Qty PCC						**49.89**	**5510.16**	**274,902.00**
	Rate Analysis	Cum							
	Basic Rate	5102.00							
	Area Weightage	8.00%							
	Total Qty	5510.16							
9	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	(Page No. 25, Item No. - 5.6 of PW;P&IWTD S.R 2018-19)								
	1st Step	Cum							
	Foundation								
	Foundation	4	2	5.60	0.70	0.45	14.11		
		4	2	5.55	0.70	0.45	13.99		
	2nd Step								
	Foundation	4	2	5.60	0.45	0.23	4.64		
		4	2	5.55	0.45	0.23	4.60		
	Rate Analysis					**Total Qty**	**37.33**	**4963.68**	**185,295.00**
	Basic Rate	4596.00							
	Area Weightage	8.00%							
	Total Qty	4963.68							
10	KSRB 4.1.6 : Providing and laying in position reinforced cement concrete of design mix M15 with OPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets,coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6								
	(P No. 13, I No. - 4.6 of PW;P&IWTD SR 2018-19)								
		Cum							
	Foundation	4	2	5.60	0.45	0.10	2.02		

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
		4	2	5.55	0.45	0.10	2.00		
	Floor Concrete								
	Floor Area	4	1	5.60	5.55	0.10	12.43		
							16.45	**5855.76**	**96,304.00**
	Rate Analysis								
	Basic Rate	**5422.00**							
	Area Weightage	**8.00%**							
	Total Qty	**5855.76**							
11	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
	(P.No.14, I.No.4.11 of PW, P&IWTD SR2018-19)								
	Footing Raft	4	8	1.50	1.50	0.30	21.60		
	Column Upto Plinth	4	8	0.20	0.40	0.90	2.30		
	Rate Analysis	Cum					**23.90**	**6111.72**	**146,095.00**
	Basic Rate	**5659.00**							
	Area Weightage	**8.00%**							
	Total Qty	**6111.72**							
12	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
	(P.No.14, I.No.4.13 of PW, P&IWTD SR2018-19)								
	Plinth Beam Concrete	4	1	22.30	0.20	0.30	5.35		
	Columns	4	8	0.20	0.40	2.90	7.42		
	Roof Beam	4	1	22.30	0.20	0.25	4.46		
		4	1	5.60	0.20	0.25	1.12		
	Roof Slab	4	1	5.90	5.85	0.15	20.71		
	Rate Analysis	Cum					**39.07**	**6363.36**	**248,585.00**
	Basic Rate	**5892.00**							
	Area Weightage	**8.00%**							
	Total Qty	**6363.36**							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
13	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2								
	(P.No.15, I.No.4.28 of PW, P&IWTD SR2018-19)								
	Footing Raft	4	8	6.00	0.30		57.60		
	Column Upto Plinth	4	8	1.20	0.90		34.56		
							92.16	**278.64**	**25,679.00**
	Rate Analysis	Sqm							
	Basic Rate	**258.00**							
	Area Weightage	**8.00%**							
	Total Qty	**278.64**							
14	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
	(P.No.17, I.No.4.36 of PW, P&IWTD SR2018-19)								
	Plinth Beam Concrete	4	2	22.30	0.30		53.52		
	Roof Beam	4	2	22.30	0.25		44.60		
		4	2	5.60	0.25		11.20		
	Roof Slab	4	1	5.90	5.85		138.06		
	Slab Edges	4	1	23.50	0.15		14.10		
							261.48	**815.40**	**213,211.00**
	Rate Analysis	Sq-m							
	Basic Rate	**755.00**							
	Area Weightage	**8.00%**							
	Total Qty	**815.40**							
15	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.								
	(P.No.25, I.No.5.27.2 of PW, P&IWTD SR2018-19)								
	Walls	4	3	5.60		3.00	201.60		
		4	2	5.55		3.00	133.20		
		4	1	5.60		3.00	67.20		
		4	1	2.40		3.00	28.80		
	Parapet wall								
		4	2	5.60		0.90	40.32		
		4	2	5.55		0.90	39.96		
	Deductions								
	Door	4	-2	1.20		2.10	-20.16		
	Ventilater	4	-6	1.00		0.60	-14.40		
	Door 1	4	-4	0.90		2.10	-30.24		
	Steps								
		4	2	1.50		0.15	1.80		
		4	2	1.50		0.30	3.60		

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
		4	2	1.50		0.45	5.40		
	Around Pathway	4	1	16.00		0.40	25.60		
						Total Qty	482.68	1029.24	496,794.00
	Rate Analysis	Sqm							
	Basic Rate	953.00							
	Area Weightage	8.00%							
	Total Qty	1029.24							
16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500								
	(P.No.19, I.No.4.46.1 & 4.47 of PW, P&IWTD SR 2018-19)								
				Mtonne					
	100kg/Cum for Footing Raft	4	1	21.60		100.00	8,640.00		
	120kg/cum for Column Upto Plinth	4	1	2.30		120.00	1,105.92		
	100kg/Cum for Plinth Beam	4	1	5.35		100.00	2,140.80		
	120 kg/Cum for Columns	4	1	7.42		120.00	3,563.52		
	100 kg/Cum for Roof Beam	4	1	5.58		100.00	2,232.00		
	100 kg/Cum for Roof Slab	4	1	20.71		100.00	8,283.60		
							25,965.84		
	Total Qty Rebar Steel Quantity						25.97	76643.28	1,990,107.00
	Rate Analysis	Tonne							
	Basic Rate	70966.00							
	Area Weightage	8.00%							
	Total Qty	76643.28							
17	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. Including cost of all labour complete as per specifications. No. KBS 2.9								
	(Page No. 7, Item No. - 2.10 of PW;P&IWTD S.R 2018-19)								
	Total Qty Earthwork Qty						308.70		
	Deductions								
	Soiling						-38.40		
	PCC						-49.89		
	Raft						-21.60		
	Column Upto Plinth						-2.30		
	SSM						-37.33		
						Total Qty	159.17	217.08	34,553.00
	Rate Analysis	Cum							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
	Basic Rate	201.00							
	Area Weightage	8.00%							
	Total Qty	217.08							
18	Providing 18mm thick cement plaster in single coat with cement mortar to brick masonry incluing rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Cement Mortar 1:4.KSRB 6-6.3. **Cement Morter 1:4**								
	(Page No. 116 , Item No. - 15.16 of PW;P&IWTD S.R 2018-19)								
	Exernal Platesring								
	Walls	4	2	5.60		2.90	129.92		
		4	2	5.55		2.90	128.76		
	Deductions								
	Door	4	-2	1.20		2.10	-20.16		
	Ventilater	4	-6	1.00		0.60	-14.40		
	Steps								
		4	4	1.50		0.15	3.60		
		4	4	1.50		0.30	7.20		
			4	1.50		0.45	2.70		
	Parapet wall								
		8	2	5.60		0.90	80.64		
		8	2	5.55		0.90	79.92		
	Total Qty						**398.18**	**281.88**	**112,239.00**
	Rate Analysis	Sqm							
	Basic Rate	**261.00**							
	Area Weightage	**8.00%**							
	Total Qty	**281.88**							
19	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms.								
	(P.No.106, I.No. 14.41.2 of PWD SR 2018-19)								
	Walls Tiles								
	Walls	4	3	5.60		2.90	194.88		
		4	2	5.55		2.90	128.76		
		8	1	5.60		2.90	129.92		
		8	1	2.40		2.90	55.68		
	Deductions								
	Door	4	-2	1.20		2.10	-20.16		
	Ventilater	4	-6	1.00		0.60	-14.40		
	Door 1	4	-4	0.90		2.10	-30.24		
	Total Qty						**444.44**	**1762.56**	**783,352.00**
	Rate Analysis	Sqm							
	Basic Rate	**1632.00**							
	Area Weightage	**8.00%**							
	Total Qty	**1762.56**							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
20	KSRB 15-3.14: Providing 12mm thick cement plaster in single coat with cement mortar 1:4 (with lime rendering) to ceiling inclunding & rounded off corners wherever required smooth rendering Providing & removing scaffolding, including cost of materials, labour curing complete as per specification								
	(P.No.116 I.No.15.22 , 15.33 of PW, P&IWTD SR 2018-19)								
	Ceiling Plastering								
	Roof Slab	4	1	5.90	5.85		138.06		
	Total Qty						**138.06**	**243.00**	**33,549.00**
	Rate Analysis	Sqm							
	Basic Rate	**225.00**							
	Area Weightage	**8.00%**							
	Total Qty	**243.00**							
21	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification.								
	(P.No.109 I.No.14.45 of PW, P&IWTD SR 2018-19)								
	Ceiling Plastering								
	Toilet Floor Area	4	1	5.90	5.85		138.06		
	Deductions								
	Toilets	4	-4	1.50	1.20		-28.80		
	Total Qty						**109.26**	**972.00**	**106,201.00**
	Rate Analysis(Issue Rate)	Sqm							
	Basic Rate	**900.00**							
	Area Weightage	**8.00%**							
	Total Qty	**972.00**							
22	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 15x15cms 6mm thick								
	(P.No.108 I.No.14.36.1 of PW, P&IWTD SR 2018-19)								
	Toilets	4	4	1.50	1.20		28.80		
	Total Qty						**28.80**	**1213.92**	**34,961.00**
	Rate Analysis	Sqm							
	Basic Rate	**1124.00**							
	Area Weightage	**8.00%**							
	Total Qty	**1213.92**							
23	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	(P.No.118, I.No.15.53.2 of PW, P&IWTD SR2018-19)								
	Qty Same as External						398.18		
	Total Qty						**398.18**	**110.16**	**43,864.00**
	Rate Analysis	Sqm							
	Basic Rate	**102.00**							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
	Area Weightage	8.00%							
	Total Qty	110.16							
24	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound								
	(d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.								
	(P.No.66 I.No.10.2 of PW, P&IWTD SR 2018-19)								
	Roof Slab	4	1	5.90	5.85		138.06		
						Total Qty	**138.06**	**1073.52**	**148,210.00**
	Rate Analysis(Issue Rate)	Sqm							
	Basic Rate	**994.00**							
	Area Weightage	**8.00%**							
	Total Qty	**1073.52**							
25	**SOLID PANEL PVC DOOR SHUTTER** Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles &5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.								
	(P.No.60, I.No.9.83 of PW, P&IWTD SR 2018-19)								
	Door 1	4	4	0.90	2.10		30.24		
						Total Qty	**30.24**	**2999.16**	**90,695.00**
	Rate Analysis	Sqm							
	Basic Rate	**2777.00**							
	Area Weightage	**8.00%**							
	Total Qty	**2999.16**							
26	KSRB 9.4-3 : Providing Mathi / Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33								
	(P.No.53, I.No.9.12 of PW, P&IWTD SR 2018-19)								

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
	Door	4	2	6.60	0.10	0.10	0.53		
						Total Qty	0.53	68479.56	36,157.00
	Rate Analysis(Issue Rate)	Sqm							
	Basic Rate	63407.00							
	Area Weightage	8.00%							
	Total Qty	68479.56							
27	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34								
	(P.No.53, I.No.9.16 of PW, P&IWTD SR 2018-19)								
	Door	4	2	1.20	2.10		20.16		
						Total Qty	20.16	4510.08	90,923.00
	Rate Analysis	Sqm							
	Basic Rate	4176.00							
	Area Weightage	8.00%							
	Total Qty	4510.08							
28	KSRB 9-27.1 : Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. Fixing of Door Frame								
	(P.No.60, I.No.9.80 of PW, P&IWTD SR 2019-20)								
		4	6				24.00		
						Total Qty	24.00	1475.28	35,407.00
	Rate Analysis	Sqm							
	Basic Rate	1366.00							
	Area Weightage	8.00%							
	Total Qty	1475.28							
29	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12.								
	(P.No. 32, I.No. 7.9 of PWD SR 2015-16)								
	Grill Work For Ventilation								
	Ventilater	4.00	6	1.00		0.60	14.40		
	21 kg/ Sqm						14.40		
	Total Qty						302.40	102.60	31,026.00
	Rate Analysis	Sqm							
	Basic Rate	95.00							
	Area Weightage	8.00%							
	Total Qty	102.60							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
30	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes.								
	(Page No 99 I.No. 13.86.2 of PWD SR 2018-19)								
		4.00	1	50.00			200.00		
						Total Qty	**200.00**	**253.80**	**50,760.00**
	Rate Analysis	m							
	Basic Rate	**235.00**							
	Area Weightage	**8.00%**							
	Total Qty	**253.80**							
31	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 32 mm nominal OD pipes.								
	(Page No 99 I.No. 13.86.4 of PWD SR 2018-19)								
		4.00	1	50.00			200.00		
						Total Qty	**200.00**	**403.92**	**80,784.00**
	Rate Analysis	m							
	Basic Rate	**374.00**							
	Area Weightage	**8.00%**							
	Total Qty	**403.92**							
32	KSRB13-6.3-2 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3								
	(Page No 93 I.No. 13.33 of PWD SR 2018-19)								
		4.00	6				24.00		
						Total Qty	**24.00**	**362.88**	**8,709.00**
	Rate Analysis	Each							
	Basic Rate	**336.00**							
	Area Weightage	**8.00%**							
	Total Qty	**362.88**							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
33	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(P No 79 I.No. 12.5 of PWD SR 2018-19)								
		4.00	2				8.00		
						Total Qty	8.00	5352.48	42,820.00
	Rate Analysis	Unit							
	Basic Rate	4956.00							
	Area Weightage	8.00%							
	Total Qty	5352.48							
34	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(P No 79 I.No. 12.2 of PWD SR 2018-19)								
		4.00	2				8.00		
						Total Qty	8.00	4561.92	36,495.00
	Rate Analysis	Unit							
	Basic Rate	4224.00							
	Area Weightage	8.00%							
	Total Qty	4561.92							
35	KSRB 11-7.3 : Providing and fixing white vitreous china clay, flat back, lipped front urinal asin of 430x260x350mm in the range of three 7.5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. lamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(Page No 82 I.No. 12.28 of PWD SR 2018-19)								
	Urinals	4.00	4				16.00		
						Total Qty	16.00	3551.04	56,817.00
	Rate Analysis	Unit							
	Basic Rate	3288.00							
	Area Weightage	8.00%							
	Total Qty	3551.04							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
36	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (I.No. 12.23 of PWD SR 2018-19)								
	(Page No 82 I.No. 12.23 of PWD SR 2018-19)								
		4.00	4						
							16.00		
	Rate Analysis	Unit				Total Qty	16.00	4327.56	69,241.00
	Basic Rate	4007.00							
	Area Weightage	8.00%							
	Total Qty	4327.56							
37	KSRB13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3.								
	(PN 93 I.No. 13.24 of CSR 2018-19)								
		4.00	20						
							80.00		
						Total Qty	80.00	186.84	14,947.00
	Rate Analysis	Each							
	Basic Rate	173.00							
	Area Weightage	8.00%							
	Total Qty	186.84							
38	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms								
	(Page No 90 I.No. 12.113.1 of CSR 2018-19)								
	PVC taps	4.00	10				40.00		
						Total Qty	40.00	270.00	10,800.00
	Rate Analysis	Each							
	Basic Rate	250.00							
	Area Weightage	8.00%							
	Total Qty	270.00							
39	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.								
	(Page No 84 I.No. 12.41 of PWD SR 2018-19)								
		4.00	4				16.00		
						Total Qty	16.00	1226.88	19,630.00
	Rate Analysis	Each							
	Basic Rate	1136.00							

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
	Area Weightage	8.00%							
	Total Qty	1226.88							
40	KSRB 13-11 : Providing and placing on terrace, polyethylene water storagetanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements,making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity)Specification No.KBS 13.22								
	(I.No. 13.78 Page No 96 of PWD SR 2018-19)								
		4.00	1				4.00		
	Rate Analysis	Nos				Total Qty	4.00	7374.24	29,497.00
	Basic Rate	6828.00							
	Area Weightage	8.00%							
	Total Qty	7374.24							
	ELECTRICAL WORK								
41	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi strand2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2.1) I. Point wiring using class A Materials a) Short point up to 3Mtr from tapping point to out let via switch GROUP A								
		Each	4	40.00			160.0	174.00	27,840.00
42	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi strand2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (5/2.1) I. Point wiring using class A Materials b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch GROUP A								
		Each	4	10.00			40.0	245.00	9,800.00
43	Supplying and mounting 2 Nos. of 2 way 6 amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as required.(15/3.2)								
		Each	4	5.00			20.0	171.00	3,420.00
44	Supplying 6A flush type socket and 6 amps flush type SP switch either flush mounting in a existing in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required.(15/3.1) b) 6Amps 3/5 way switch socket.								
		Each	4	2.00			90.0	150.00	13,500.00
45	Supply and fixing of bakelite modular switch/ socket /stepped electronic fan regulator on existing modular switch plate as per IS 3854 and IS 1293								
		Each	4	2.00			22.0	286.00	6,292.00
46	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary								
		Each	4	1.00			4.0	418.00	1,672.00
47	Fixing all types and all capacities of fluorescent / false ceilling / spot / LED fittings indoor on the wall / celling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (108/17.7)								
		Each	4	3.00			12.0	98.00	1,176.00

Sl.No.	Description	Unit	No.	L	B	D	Qty	Rate in Rs.	Amount in Rs.
46	Supplying of 1440rpm heavy duty exhaust fan with bracke tblades suitable to operate on 230V 50Hz, AC Supply complete.(78/9.2.2) I) 12" Sweep (300mm)								
		Each	4	6.00			24.0	3654.00	87,696.00
47	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved.(78/9.3.1.2) a.Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj,Havells) 48" (1200mm)								
		Each	4	2.00			8.0	1900.00	15,200.00
48	Supplying of 2'x2' LED recessed liminaire with 36 Watts system wattage. Housing Shall be with pressure die cast aliminum alloy with corrosion proof resistant polyester power coated. Drive operates with voltage range from 100V to 270V 50/60Hz with short circuit, overload and mis-wiring protection. Lumen Maintenance of 70% at 70% at 500000 Hrs. injuction moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction Temperature shall be <70 degree Celsius. Driver is on constant current driver @ 0.06A with PF >0.92 with line voltage @ 220-240V 50/60Hz, driver efficiency > 85% & THD< 15%, LED Efficiency > 130 im/W at 1W & Fixture Efficiency > 75im/w with CRI > 75 with injuction moulded polycarbonate lens with < 80mm depth. 5Years Warrenty against any manufacturing defect working under standerd electrical condition.(26/4.33.2) a)2'x2'-36Watts								
		Each	4	2.00			8.0	8242.00	65,936.00
49	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class.(55/7.4) Class 'A' PVC Cable 3.5 core 25 sqmm								
		Mtrs.	4	10.00			40.0	657.00	26,280.00
50	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)(61/7.9)In soil (ordinary)								
		Mtrs.	4	10.00			40.0	78.00	3,120.00
					Total KPWD SR 2018-19 Items Construction Cost				6,449,843.76
						Total Qty Construction Cost			6,711,687.76
					12% GST on KPWD SR 2018-19 Items				773,981.25
								Sub Total	7,485,669.01
						Miscelleneous And Rounding off			14,330.99
							Grand Total Qty		7,500,000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.

2 The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-201 9and Data Rates

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Ramasanjeeradi
Assistant Engineer
Ward 04
BBMP

Assistant Executive Engineer
Yelahanka Satellite Sub Division
BBMP

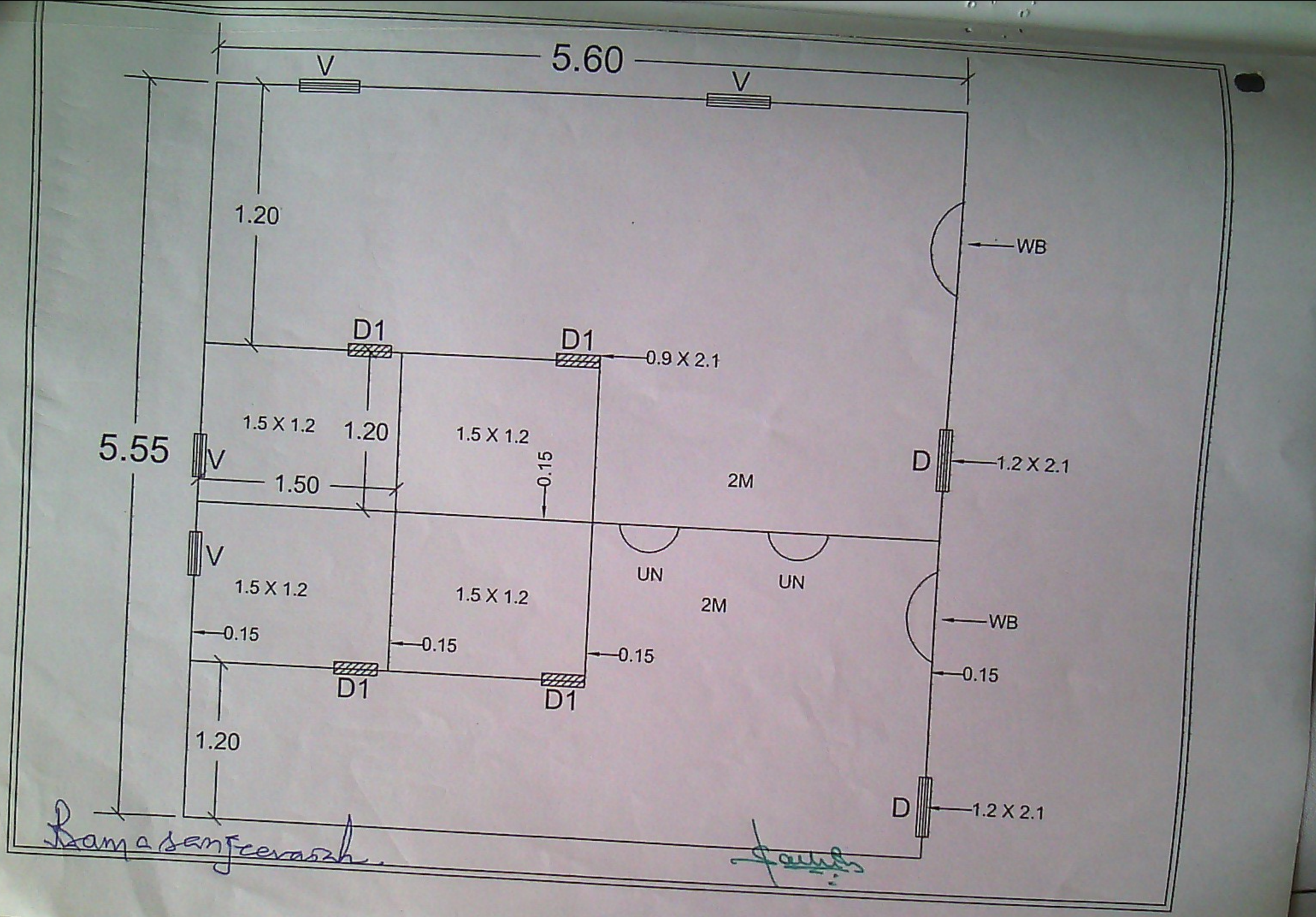
Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. ...75.00 lakhs
..... Seventy five lakhs only.
.....
is accorded under head P-3294
..... 2019-20 14th financial
..... commission works
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. EE/YNK/AS/77/2019-20 Dt. 28/01/2020

Executive Engineer

Technical Sanction
Accorded For R.S.75.W bechenly
Head of A/C. P3294
CER NO : 278 **Dt:** 29.01.2020

ASST EE (YNK)


5.60
V
V
1.20
WB
D1
D1
0.9 X 2.1
1.5 X 1.2
1.20
1.5 X 1.2
5.55
V
1.50
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2M
D
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1.5 X 1.2
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